

SY PVC Control Cable



APPLICATION

Steel wire braided flexible connecting cables for instrumentation and control equipment, for tooling machinery production lines, and in flexible applications for free movement without tensile load. Suitable for use in dry, moist and wet rooms. The galvanised steel wire braid serves as protection against mechanical traverse loads and acts as a magnetic screen against interference. These cables are not used for outdoor or underground installation.

Flame Retardant according to IEC/EN 60332-1-2

CHARACTERISTICS

Voltage Rating

300/500V

Temperature Rating

Fixed: -40°C to +80°C

Flexed: -5°C to +70°C

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexed: 12.5 x overall diameter

CONSTRUCTION

Conductor

Class 5 flexible plain copper

Insulation

PVC (Polyvinyl Chloride)

Inner Sheath

PVC (Polyvinyl Chloride)

Armour

GSWB (Galvanised Steel Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Transparent

DIMENSIONS

	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
	2	0.75	0.40	0.8	7.2	79.3
	2	1	0.40	0.8	7.6	91
	2	1.5	0.40	0.8	8.2	110
	2	2.5	0.50	0.8	9.4	147
	3	0.75	0.40	0.8	7.5	91.3
	3	1	0.40	0.8	7.9	104
	3	1.5	0.40	0.8	8.6	129
	3	2.5	0.50	0.9	10.1	185
	3	4	0.60	1	12	269
	3	6	0.65	1.1	13.5	354
	3	10	0.75	1.3	16.9	579
	3	16	0.75	1.5	19	785
	3	25	0.90	1.8	23.5	1211
	3	35	0.95	2	26.7	1642
	4	0.75	0.40	0.8	8	107
	4	1	0.40	0.8	8.5	124
	4	1.5	0.40	0.8	9.2	151
	4	2.5	0.50	0.9	11.1	230
	4	4	0.60	1.1	13.2	332
	4	6	0.65	1.2	14.8	442
	4	10	0.75	1.5	18.8	735
	4	16	0.75	1.6	20.9	988
	4	25	0.90	2	26	1536
	4	35	0.95	2.2	30	2098
	4	50	1.25	2.6	35.3	2968
	4	70	1.25	3	40.5	3822
	4	95	1.60	3.6	49.4	5369
	5	0.75	0.40	0.8	8.5	120
	5	1	0.40	0.8	9.1	140
	5	1.5	0.40	0.9	10.1	182
	5	2.5	0.50	1	12.1	266
	5	4	0.60	1.1	14.2	382
	5	6	0.65	1.3	16.5	525
	5	10	0.75	1.6	20.6	873
	5	16	0.75	1.8	23.4	1207
	5	25	0.90	2.2	29	1875
	5	35	0.95	2.4	32.9	2577
	7	0.75	0.40	0.8	9.1	147
	7	1	0.40	0.9	9.9	181
	7	1.5	0.40	0.9	11	226
	7	2.5	0.50	1.1	13.2	338
	12	0.75	0.40	1	10.9	237
	12	1	0.40	1	12.7	280
	12	1.5	0.40	1.10	14.2	365
	12	2.5	0.40	1.20	17.5	572

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
18	0.75	0.40	1.10	13.7	322
18	1	0.40	1.20	14.9	396
18	1.5	0.40	1.30	16.8	521
18	2.5	0.40	1.30	20.4	809
25	0.75	0.40	1.30	16	438
25	1	0.40	1.40	17.6	544
25	1.5	0.40	1.50	19.6	708

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITES 30°C CONTINOUS LOADING A	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21
25	108	0.78
35	135	0.554
50	168	0.386
70	207	0.272
95	223	0.206